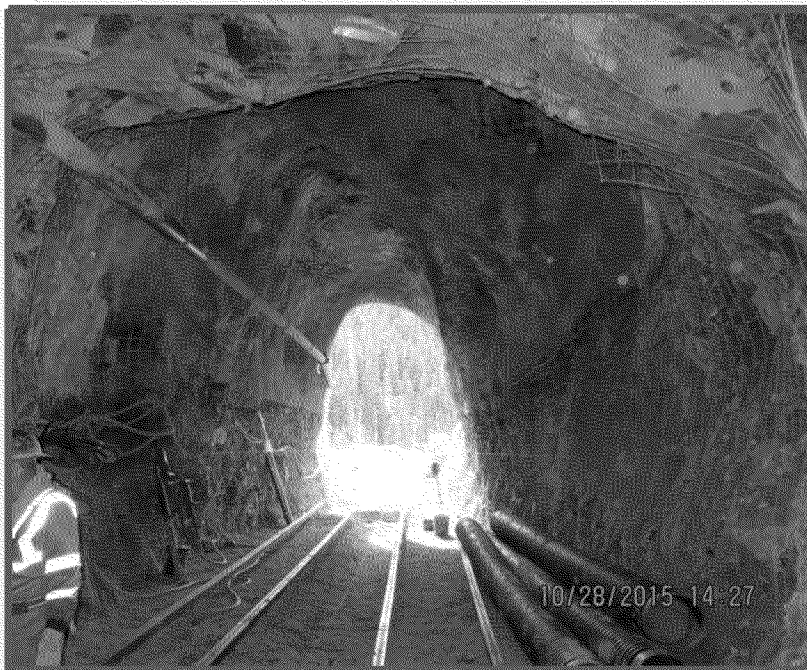


	SITUATION	REPORT		
INCIDENT	COMMAND	POST	GOLD	KING
GOLD	KING	MINE	INCIDENT	RELEASE
U.S.	ENVIRONMENTAL	PROTECTION	AGENCY	



Stabilization      activities      inside      Gold      King .      Mine      adit      (28      October

**Subject:**                      EXECSUM      /      SITREP      #48  
                                     Gold      King      Mine      Incident      Release  
                                     San      Juan      County,      Colorado  
                                     Latitude:      37.8945      107.6844      Longitude:

**From:**                      Situation      Unit,      Incident      Command      Post      Gold      King  
**Date:**                      03      November 2015  
**Reporting**              Period 0700 27 October 2015 through      0 0870      November 2015  
**Website:**                      [www.epa.gov/goldkingmine](http://www.epa.gov/goldkingmine)



EXECUTIVE SUMMARY

**Situation** EPA Region 8 is managing the Gold King Mine. Ongoing field activities include water treatment and winterization activities at the Gold King Mine/Gladstone site.

**Highlights, Key Updates/Changes**

- EPA Region 8 continues to work through action items identified as a part of the operations to transition EPA 8. Region 8.
- As of 02 November 2015, Region 8 mailing contains analytical results for private properties where U.S. and/or EPA drinking water sediments were collected.

**Objectives**

- Ensure health and safety of the public and responders.
- Continue private water deliveries to homes with Primary M.
- Continue to facilitate transition cooperative agreement between San Juan Basin Health Department (SJBHD), Colorado Department of Public Health and Environment (CDPHE), Colorado Office of Emergency Management Region (OEM) 8. t
- Continue work to the action items identified transition operations of to the EPA Region 8.
- Continue coordination federal, state, tribal and local stakeholders.
- Prepare to conduct future insampling coordination activities with the Monitoring Plan.
- Mine Operations
  - A pipeline is conveying water from Gold King Mine the ponds en route to the Gladstone water treatment system.
  - Treatment system including the tiered solid dewatering (geotube area) is operational. System is currently treating 550 gallons per minute (gpm).
  - Construction of winterization building is approximately 50% complete.
  - Final grading is in progress around the Gladstone Ponds and access road with seed and matting application.
  - Red and Bonita Ponds reclamation is ongoing.
  - Once winterization of the system is complete in approximately November 2015, mine operations will transition to U.S. EPA. EPA will operate the system follow up actions to be conducted in over the spring during the system operation period.



Command	Emphasis
For is operational period, the command emphasis	
• Safety of responders and the public	
• Visitors to the mine site to a go ng. through the aMindansafetysite bris	
• Personnel entering Southern Ute Tribe landsorted mustby taffa nSouthern U	
• Ensure information flow between ICP and Stakeholders is t	
The metrics in provided this Situation Report represent quantities from reported	
0700 27 October 2015 through 0700 03 November 2015. Highlighted text and metrics represe	
from previous PressSITREP releases presented in Attachment 1.	



## 1.0 BACKGROUND

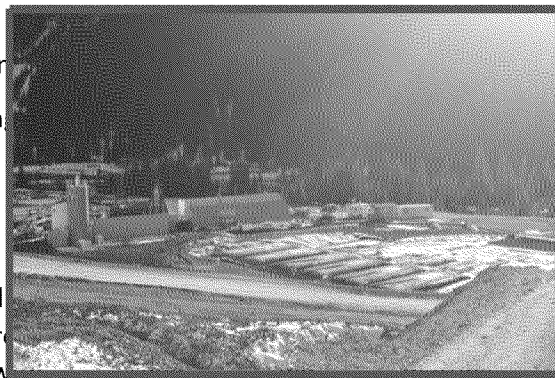
The Gold King Mine (GKM) near Silverton, Colorado is a historic gold mine at an elevation of approximately 11,300 feet above mean sea level. The mine is a contributor of heavy metal drainage into the Animas Creek River. GKM workings have been inaccessible since 1995 when the mine was suddenly released. On 5 August 2015, an estimated 3 million gallons of sediment and metals were released from the Gold King Mine adit. This water that feeds into the Animas River, and eventually flows into the US EPA Contingency Assets and efforts to mitigate from the release.

## 2.0 OPERATIONS

### 2.1 Minations Oper

#### 2.1.1 Current Mine Operations Summary

- A pipeline is conveying water from Gold King Mine to the Gladstone ponds en route to water treatment system.
- Treatment system operations (including tiered solid dewatering pad) are operating between 550 to 600 gpm.
- Final grading is in progress and access road, along with water application.
- Red and Bonita pond reclamation is ongoing.
- Winterization of the treatment system is currently continuing until approximately November 2015. Construction of the winterization building is approximately 50% complete.
- Completed filling of the emergency pond at Gold King.
- Water quality parameters being monitored at locations include:
  - Interim Gladstone Treatment System - - Discharge (GSTO) upstream of Cement Creek (CC20).
  - Cement Creek - - (CC20) - 250 ft upstream of the confluence downstream of GSTO
  - Cement Creek - 1,000 (CC18) ft upstream from the confluence of Cement Creek
- START personnel are conducting periodic pH/fluoride readings above Gladstone ponds (GSTI).



Gladstone treatment system



## 2.1.2 Mine Operations Activities

A partial list of additional activities at the GKM site include:

- GKM Portal
  - Additional Grading Activities
  - Security Gate Installation
  - Additional culvert work on Cement Creek at first
- Additional Road Grading throughout operations areas
- North Fork Creek additional minor stream bank cleanup
- Additional Reclamation activities (seed, compost, etc.) in area south of Red and settling ponds
- Upper Gladstone Area
  - Additional drainage and reclamation activities
  - Installation of a fencing and at Gladstone Ponds
- General grading on county roads from Gladstone to

## 2.2 River Sampling

U.S. EPA future sampling activities to the Monitoring The Plantable  
below summarizes activities for and surface water sampling. Sample qu  
based on the SCRIBE database, and include field samples an

Table 1 - Operations Sampling Summary									
Matrix	U.S. Region	Quantity							
		Oct. 2015					Nov.		Cumulative
		27	28	29	30	31	1	2	
Surface Water Samples	8	0	0	0	3	0	0	0	702
	6	0	0	0	0	0	0	0	561
	9	0	0	0	0	0	0	0	310
		0	0	0	3	0	0	0	1,573
Sediment Samples	8	0	0	0	0	0	0	0	349
	6	0	0	0	0	0	0	0	553
	9	0	0	0	0	0	0	0	256
	Total	0	0	0	0	0	0	0	1,158

## 2.3 Private Well Sampling

U.S. EPA has collected and analyzed samples from drinking  
and San Juan River has been no sampling of private drinking  
Private wells that have metals concentrations greater than the M  
(MCLs) and were collected from private drinking water wells during the first sampling event we  
sampled a second time to confirm the analytical second results  
given proper were collected U.S. from EPA the as tapotified L residents that ha  
The table below provides summary of private drinking water sampling completed during this  
operational period



Table 2 – Private			Drinking		Water		Well		Sampling		
Matrix			U.S. EPA Region	Quantity							
				Oct. 2015					Nov.		Cumulative
				27	28	29	30	31	01	02	
Private Collected samples)	Drinking (from	Water SCRIBE,	8	0	0	0	0	0	0	0	449
			includes 6	0	0	0	0	0	0	0	309

Notes: Some residences used multiple results letters  
Some residential sampling included surface water and/or sediment sampling.

Table 3 -Summary of Wells with		
Matrix		U.S. EPA Region
Wells containing contaminant concentrations above MCLs during second sampling event		8 6

\*Note: One well in Region 6 exceeded the MCL for lead and New Mexico and the U.S. EPA, it as wasnot detected that the GKM incident.

## 2.4 Mitigation Activities

No public water systems are currently affected ICPGK by continues relea to coordinate and deliver bottled drinking water to residences in Region 6. The table below summarizes other public support activities completed.

Table -Completed			Public	Support	(Cumul	
Activity			U.S. Region	Qty. (gal)	Qty. (hay b	Qty. (salt b
Potable	Water	Deliv	8	105,600		
Livestock Deliveries	/	Agricultural	8	133,770		
			6 Water	1,104,990		
			9	218,400		
			BIA	975,888		
Agricultural	Food	De	6		244	
			9		8,448	
Agricultural	Salt	Bloc	8			500

### 2.4.1 Water Tank

On or about 15 August 2015, 15 black livestock tanks the(16 ERRS contractor to certain locations on the Navajo Reservation. Mine released U.S. EPA has of 15 water tanks from the Navajo Reservation.

### 2.4.2 Other Mitigation Activities

No other activities reported.



Exec. Sum/SITR (03 November 2015)  
Gold King Mine ICP Gold Release King

### 3.0 PLANNING

#### 3.1 Environmental Unit

As of 02 November 2015, EPA contacted Region 8 analytical completed its mailing  
properties where U.S. EPA collected sediment and/or drinking water

#### 3.2 Resources

The table below summarizes staffing numbers for the federal  
King Mine Site

Table 5 - Personnel Site of 30		
Location	Agency / Entity	Number Personnel
Mine Operations	U.S. EPA	2
	USCG	3
	U.S. EPA Contractors (ST	2
	U.S. EPA (Contractors average	30
	Visitors	7
Total		44

USCG = U.S. Coast Guard

### 4.0 FINANCE

#### 4.1 Estimated Response Costs to Date

The table below summarizes estimated costs for November response

Table 6 - Estimated Response Costs Reported November 2015 of					
U.S. Region	U.S. EPA Cumulative Expended Payroll	U.S. EPA Cumulative Expended Travel	U.S. EPA Cumulative Other Charges	U.S. EPA Cumulative Contractors Cost	Total Cumulative Costs
8	\$1,272,198	\$294,369	\$46,109	\$8,064,115	\$9,676,791
6	\$649,858	\$120,141	\$12,989	\$2,832,514	\$3,615,502
9	\$294,057	\$81,894	\$0	\$2,543,671	\$2,919,622
Total	\$2,216,113	\$496,404	\$59,098	\$13,440,300	\$16,211,915

#### 4.2 Estimated Burn Rates

The table below summarizes estimated burn rates for the response

Table 7 - Estimated Daily as Burn of November		
U.S. EPA Region	Estimated Average Daily Burn	
8	\$35,000	
6	\$ -	
9	\$8,920	
Total	\$43,920	

### 5.0 LOGISTICS

Logistics completed demobilization the ICPGK facility in Durango, Colorado October 2015.



## 6.0 SAFETY

Safety did not recordable report injuries during illness operational period

## 7.0 PUBLIC INFORMATION

### 7.1 Community Engagements Public Events

Community engagements public events occurred during this period include

- Animas River Stakeholder Meeting - - 2015

### 7.2 VIPs/Congressional Visits

7.2.1 Occurred Events

VIP / Congressional visits that occurred during this period include

- None.

7.2.2 Anticipated Events

The table below summarizes visits and scheduled public events days next

Table 8 - Anticipated Site Visits and Public Events			Planned Event		Anticipated Date
No	Events	Scheduled			N/A

### 7.3 Call Center Notification Plan

U.S. EPA Headquarters continues to operate 607 9700 National call center  
Personnel at the EPA Region are Gold King Mine the Stakeholder  
and Notification Plan

## 8.0 LIAISON

The list below summarizes regional local entities participating in the response

U.S. EPA  
U.S. Coast Guard (USCG)  
U.S. Geological Survey (USGS)  
U.S. Army Corps of Engineers (USACE)  
U.S. Bureau of Reclamation (USBOR)  
U.S. Fish and Wildlife Services (USFWS)  
Colorado Office of Emergency Management (OEM)  
Colorado Department of Public Health and Environment (CDPHE)  
New Mexico Environment Department (NMED)  
New Mexico (NM) Department of Health  
NM Office of the State Engineer  
NM Department of Game and Fish  
State of Utah  
State of Arizona  
City of Durango



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Gold King Mine Release  
ICP Gold King

La Plata County  
San Juan County  
San Basilio Health Department  
County of - New Mexico  
Southern Ute Indian Tribe (SUIT)  
Navajo Nation

9.0 SOURCE OF ADDITIONAL INFORMATION

For additional information [www.epa.gov/epaldkingmto](http://www.epa.gov/epaldkingmto).



Exec.	Sum/SITR	03	#48	November	2015)
Gold	King		Mine	Release	King
			ICP	Gold	

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ATTACHMENT 1  
PRESS RELEASES



PRESS RELEASE #1

Gold King Mine Data, October 28, 2015

Free viewers may be needed to access information linked or  
Data from Gold King Mine Response

Surface water and sediment are now below recreational screening  
system as a whole event being conditions maintained at pre

It is important to keep in mind that metal concentrations  
Fluctuations occur weather and other events that change water  
can also occur if sediments are accumulating at a higher  
being washed away by the next high water event.

As the response se to transitions term to evaluations, EPA will continue  
for any abnormal occurrences of metal based screening extended

This data submission presents data for sediment an sample. collected

EPA has reviewed includes the comparison to screening levels for expo  
use. The metal concentrations of the samples are below sed  
are being maintained conditions. pre Based on previous monitoring events  
that metal concentrations may fluctuate from time to time  
or other events that may change the water flow rates

• Open or download Region data Sediment Summary pg, Table 24 10032015

This data submission presents data for surface water samples  
Juan River.

EPA has reviewed includes the comparison to screening levels for expo  
use. The metal concentrations of the samples are below sur  
levels. Surface water results sample from a September 24 sampling event  
exhibited an increase in metal even concentrations, relative to some pre met  
concentrations above the recreational screening values. The presumably due  
September 28 surface water results indicate the metal concentrati  
screening values, but still somewhat elevated conditions. relative September 30  
surface water results indicate the metal returned event concentrations. ha

• Open or download Region the 9 data Surface file: Water Summary pg, Table 65 100